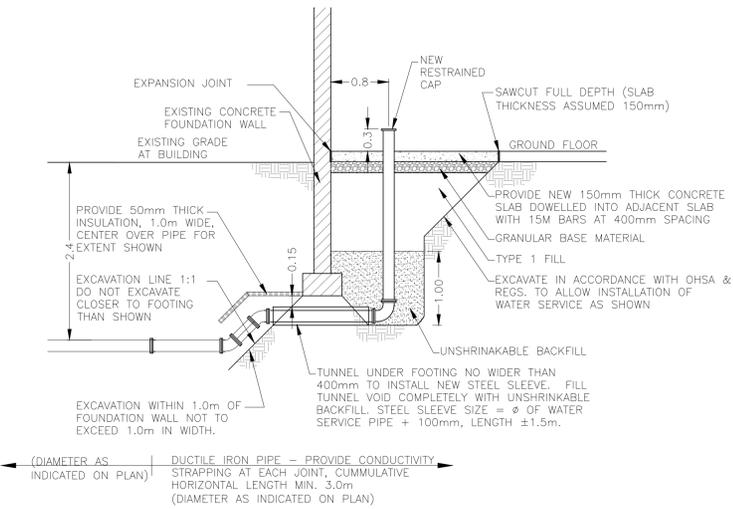
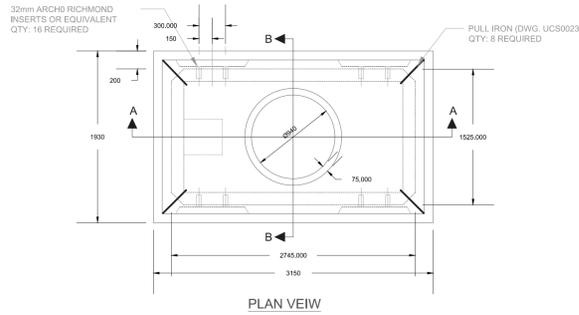


TYPICAL TRENCH DETAIL
SCALE 1:20

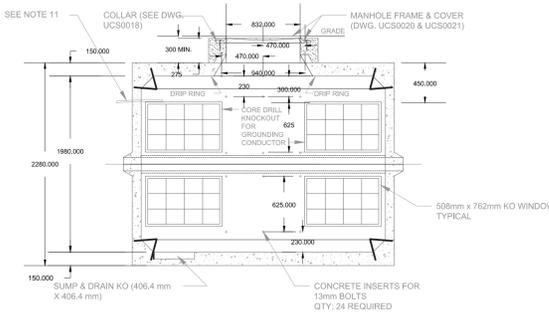


TYPICAL WATER SERVICE ENTRY
SCALE 1:40

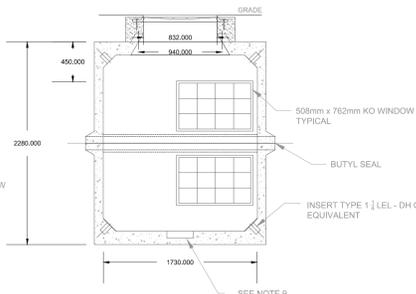
NOTE:
SLOPE SIDES IN ACCORDANCE WITH ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS



PLAN VIEW



SECTION A-A

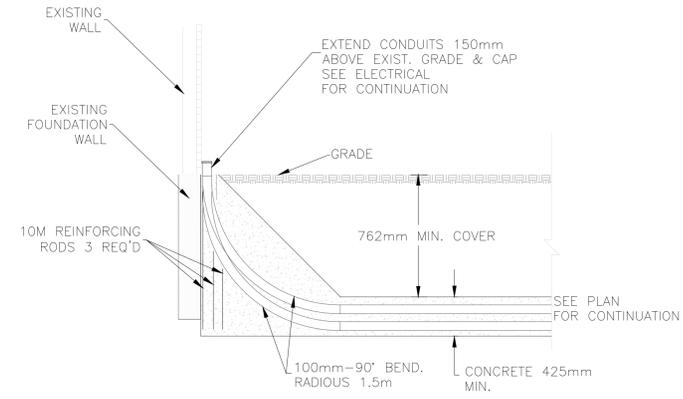


SECTION B-B

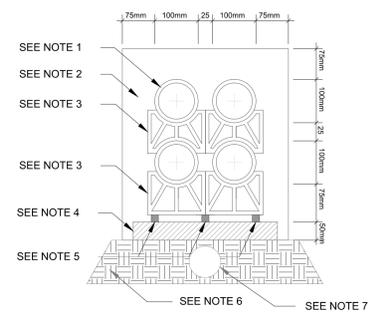
TYPICAL PRECAST MANHOLE DETAIL
(1525 X 2745mm CONSTRUCTION DETAIL)
SCALE: N.T.S.

NOTES:

- SUPPLIED AND INSTALLED BY CONTRACTOR.
- LOADS CAN-S6-M78 22.5 KIP WHEEL SOIL - 1500mm MAX. 300mm MIN. WATER TABLE AT SURFACE.
- CONCRETE 35 MPa AT 28 DAY TEST.
- STEEL 400 MPa COVER TO STEEL 38mm
- ALL MATERIALS TO BE CAN 3-A23, 1-M77
- BEDDING TO BE 75mm TO 150mm (3" TO 6") OF GRANULAR "A" COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- SEE HYDRO-OTTAWA CONSTRUCTION SPECIFICATION DOCUMENT NUMBER GCS0005 SECTION 2.2 FOR INSTALLATION PROCEDURE.
- DUCTS TO BE REINFORCED ON THE BOTTOM FOR 1500mm MIN. FROM FACE OF MANHOLE.
- SUMP KNOCK OUT IN FLOOR TO BE 400mm x 400mm.
- KNOCK OUTS TO BE 510mm H x 780mm AT INSIDE SURFACE.
- ONE CONTINUOUS PIECE OF #20 STRANDED BARE COPPER WIRE 5m LONG USED FOR GROUND WITH 1m INSIDE MANHOLE. REMAINDER OF WIRE TO BE PLACED UNDER DUCT STRUCTURE OR UNDER MANHOLE BELOW GRANULAR BASE.



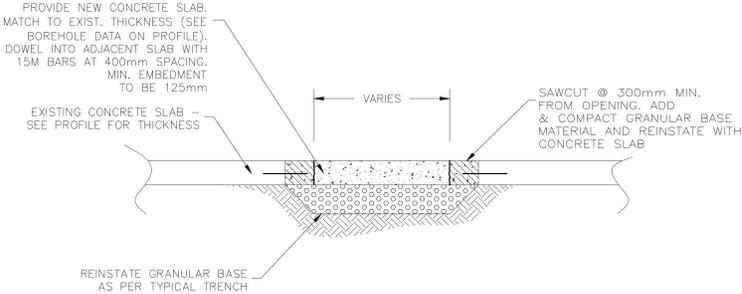
LATERAL CONNECTION FOR NEW POWER DUCT BANK
N.T.S.



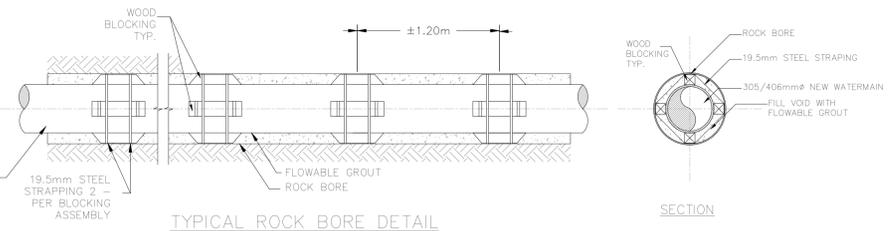
TYPICAL DUCT BANK SECTION
SCALE: N.T.S.

NOTES:

- 100MM TYPE DB2 PVC DUCT
- NEW CLASS C-2 CONCRETE
- DUCT SPACERS, A MINIMUM GAP OF 25mm (1") BETWEEN DUCTS.
- CONCRETE BASE SPACER (50mm MIN.).
- 10M REINFORCING RODS POSITIONED AS SHOWN (SEE NOTE 1 - TYPICAL DUCT BANK SECTION)
- COMPACTED GRANULAR BASE.
- NEW 100mmØ DRAIN



CONCRETE ROADWAY REINSTATEMENT
N.T.S.



TYPICAL ROCK BORE DETAIL
SCALE 1:25

3	100% ISSUED FOR TENDER	30/01/15
2	99% REVIEW	12/12/14
1	66% SUBMISSION	17/01/14

revisions	description	date
A	detail no. du detail	A
B	location drawing no. sur dessin no.	B C
C	drawing no. dessin no.	

project
1426 ST-JOSEPH BLVD. WATERMAIN RECONSTRUCTION
project

OTTAWA, ONTARIO
drawing
dessin

TYPICAL DETAILS

designed	J. MAYDA	conçu
date	2015/01/30	(yyyy/mm/dd)
drawn	G. FATTOUCHE	dessiné
date	2015/01/30	(yyyy/mm/dd)
reviewed	J. MAYDA	examiné
date	2015/01/30	(yyyy/mm/dd)
approved	J. MAYDA	approuvé
date		(yyyy/mm/dd)
Tender	D. MOIR	Soumission
Project Manager	Administrateur de projets	
project no.		no. du projet

R.020045.006

drawing no. no. du dessin